

In the Claims

1-12. (cancelled)

13. (currently amended) A device for controlling and actuating a vibrating mechanism, comprising:

a hydraulic pump;

a hydraulic motor driven by said hydraulic pump via a hydraulic circuit;

a vibrator driven by said hydraulic motor;

a secondary branch connected to said hydraulic circuit;

a pressure regulator connected in said secondary branch to regulate fluid pressure supplied by said hydraulic pump to said hydraulic motor for driving said vibrator and having first and second opposing control inputs connected to a fluid input of said pressure regulator to apply oppositely directed pressures thereto; and

a hydraulic switch connected to and controlling actuation of said pressure regulator, and having a switch input connected in fluid communication with said second control input to control pressure applied thereto for controlling the actuation of said pressure regulator.

14. (previously presented) A device according to claim 13 wherein

said vibrator is part of a soil tamping machine.

15. (previously presented) A device according to claim 13 wherein

    said hydraulic switch has a base position forming an "off" position and connecting said switch input in fluid communication with a tank such that said hydraulic switch is relieved to tank pressure.

16. (previously presented) A device according to claim 15 wherein

    said hydraulic switch comprises an energy storage device biasing said hydraulic switch to said "off" position.

17. (previously presented) A device according to claim 16 wherein

    said energy storage device comprises a reset spring.

18. (previously presented) A device according to claim 13 wherein

    a throttle valve is in a line connecting said first and second control inputs of said pressure regulator and said hydraulic switch, and is upstream of a branch to said second control input.

19. (previously presented) A device according to claim 18 wherein

    said throttle valve has a pressure adjustment value corresponding to a pressure adjustment value of a set spring on said pressure regulator assigned to said second control input to which said throttle valve is connected.

20. (previously presented) A device according to claim 19 wherein  
said set spring biases said pressure regulator towards a blocking position interrupting  
fluid flow between said fluid input of said pressure regulator and a tank; and  
said pressure regulator establishes a fluid communication connection in a passage  
position thereof.

21. (previously presented) A device according to claim 13 wherein  
said hydraulic switch is a 2/2-way valve.

22. (previously presented) A device according to claim 13 wherein  
said hydraulic switch comprises first and second opposing control spaces connected in  
fluid communication.

23. (previously presented) A device according to claim 22 wherein  
said hydraulic switch is a 2/2-way valve.

24. (previously presented) A device according to claim 22 wherein  
said hydraulic switch comprises an energy storage device biasing said hydraulic switch to  
said "off" position; and  
said first control space has a first cross-sectional area greater than a second cross-  
sectional area of said second control space such that an excess of force is produced in said first

control space to overcome combined forces from said energy storage device and a hydraulic force from said second control space in an "operation" position.

25. (previously presented) A device according to claim 14 wherein

said hydraulic circuit comprises a pressure reducing valve in a supply circuit portion of said hydraulic circuit connecting said hydraulic pump to a hydraulic drive of said soil tamping machine to supply said hydraulic drive with a predetermined pressure lower than pressure from said hydraulic pump.

26. (previously presented) A device according to claim 13 wherein

a pressure limiting valve is connected to said pressure regulator for safeguarding maximum pressure.